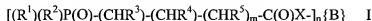


AMENDMENTS TO THE CLAIMS

This listing replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A compound of the formula (I)



in which the substituents and indices have the following meanings:

X is NH, NR⁶ or S,

R¹ and R² are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or optionally substituted alkoxy, aryloxy, alkylaryloxy, arylalkyloxy, or hydroxy;

R³, R⁴, R⁵ and R⁶ are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl, or arylalkyl,

{B} is a straight-chain or branched substituent with (i) more than at least one organically polymerizable group that contains a C=C moiety, and (ii) at least 4[[2]] carbon atoms, wherein at least one C=C moiety is bonded to the remaining part of {B} via an amine or thio functional group.

m is an integer from 0 to 20,

n is an integer from 1 to 20;

apart from compounds in which {B} exhibits one or more isolated or oligomerized isoprene groups.

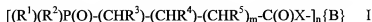
2. (Canceled.)

3. (Previously Presented) The compound of the formula (I) as claimed in claim 1, wherein when R¹, R², R³, R⁴, R⁵ or R⁶ is an open chain aliphatic group, the aliphatic group contains 1-6 carbon atoms, and when R¹, R², R³, R⁴, R⁵ or R⁶ is a cycloaliphatic or aromatic group, the cycloaliphatic or aromatic group contains 6 to 12 carbon atoms.

4. (Previously Presented) The compound of the formula (I) as claimed in claim 1, wherein the substituents of the groups R^1 , R^2 , R^3 , R^4 , R^5 and R^6 are chosen from halogen, amino groups, oxygen-comprising substituents and/or sulfur-comprising substituents.
5. (Previously Presented) The compound of the formula (I) as claimed in claim 1, wherein R^1 and R^2 are both hydroxyl or wherein R^1 and R^2 are both optionally substituted alkoxy, aryloxy, alkylaryloxy or arylalkyloxy or wherein R^1 is optionally substituted alkoxy, aryloxy, alkylaryloxy or arylalkyloxy and R^2 is optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or wherein R^1 is OH and R^2 is optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or wherein R^1 and R^2 are both hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl.
6. (Previously Presented) The compound of the formula (I) as claimed in claim 1, wherein X is NH or NR^6 .
7. (Previously Presented) The compound of the formula (I) as claimed in claim 1, wherein m is 0, 1, 2, 3 or 4 and/or wherein n is 1, 2, 3 or 4.
8. (Previously Presented) The compound of the formula (I) as claimed in claim 7, wherein m is 0 and/or wherein n is 1.
9. (Currently Amended) The compound of the formula (I) as claimed in claim 1, wherein {B} exhibits up[[2]] to 50 carbon atoms ~~and at least one C=C double bond as polymerizable group~~.
10. (Currently Amended) The compound of the formula (I) as claimed in claim 1, wherein {B} exhibits at least one ~~vinyl, allyl, norbornene, glycidyl, acrylate, methacrylate, thioacrylate or thiomethacrylate~~ or group(s) or group(s) derived from (meth)acrylamide[[s]] group.
11. (Currently Amended) The compound of the formula (I) as claimed in claim 10, wherein {B} ~~further~~ exhibits at least one vinyl, norbornene, glycidyl, acrylate, or methacrylate, ~~thioacrylate or thiomethacrylate group, or a group derived from (meth)acrylamides~~.

12. (Previously Presented) The compound of the formula (I) as claimed in claim 11, wherein the substituent {B} comprises at least one Michael systems selected from acrylate, methacrylate and/or glycidyl group(s).
13. (Currently Amended) The compound of the formula (I) as claimed in claim 12, wherein {B} comprises a carbon backbone derived from an ~~oligoamincoligoalcohol~~, one or more of the ~~aminohydroxyl~~ functional groups of the ~~oligoamincoligoalcohol~~ being ~~amidifiedesterified~~ with one or more acrylate and/or methacrylate groups.
- 14-18. (Canceled)
19. (Withdrawn) A process for the preparation of the compound of the formula (I) as defined in claim 1, comprising reacting compounds of the formula (II)
- $$[Y-(CHR^5)_mC(O)X-]_n\{B\} \quad II$$
- with compounds of the formula (III)
- $$(R^1)(R^2)P(O)H \quad III.$$
20. (Withdrawn) The process as claimed in claim 19, wherein the substituents R¹ and R² represent C₁-C₆-alkoxy.
21. (Withdrawn) The process as claimed in claim 20 for the preparation of compounds with the formula (I) in which the substituents R¹ and R² represent hydroxyl, further comprising, subjecting the product of the reaction of the compound with the formula (II) with the compound of the formula (III) to hydrolysis.
22. (Withdrawn) The process as claimed in claim 19, further comprising reacting 1 mol of the compound with the formula (II), wherein n is greater than 1, with less than n mol of the compound with the formula (III), n having the same meaning as in formula (II), in order to obtain a mixture with a compound of the formula (I), in which n is greater than 1, and a compound of the formula (II), in which n represents 1 and in which the group {B} comprises [Y-(CHR⁵)_mC(O)X-].

23. (Withdrawn-Currently Amended) A homopolymer of a compound of the formula (I)



in which the substituents and indices have the following meanings:

X is NH, NR⁶ or S,

R¹ and R² are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or optionally substituted alkoxy, aryloxy, alkylaryloxy, arylalkyloxy, or hydroxy,

R³, R⁴, R⁵ and R⁶ are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl,

{B} [[]] is a straight-chain or branched substituent with (i) more than at least one organically polymerizable group that contains a C=C moiety, and (ii) at least 4[[2]] carbon atoms, wherein at least one C=C moiety is bonded to the remaining part of {B} via an amine or thio functional group.

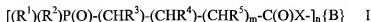
m is an integer from 0 to 20,

n is an integer from 1 to 20;

apart from compounds in which {B} exhibits one or more isolated or oligomerized isoprene groups.

24. (Withdrawn) The homopolymer as claimed in claim 23, wherein the substituents R¹, R², R³, R⁴, R⁵ and R⁶ in each case comprise 1-6 carbon atoms for open-chain aliphatic groups and in each case comprise 6 to 12 carbon atoms for cycloaliphatic or aromatic groups.

25. (Withdrawn-Currently Amended) A copolymer of different compounds of the formula (I)



in which the substituents and indices have the following meanings:

X is NH, NR⁶ or S,

R¹ and R² are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or optionally substituted alkoxy, aryloxy, alkylaryloxy, arylalkyloxy, or hydroxy,

R^3 , R^4 , R^5 and R^6 are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl,

{B} is a straight-chain or branched substituent with (i) more than at least one organically polymerizable group that contains a C=C moiety, and (ii) at least 2 carbon atoms, wherein at least one C=C moiety is bonded to the remaining part of {B} via an amine or thio functional group,

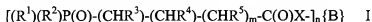
m is an integer from 0 to 20,

n is an integer from 1 to 20;

apart from compounds in which {B} exhibits one or more isolated or oligomerized isoprene groups.

26. (Withdrawn) The copolymer as claimed in claim 25, wherein when R^1 , R^2 , R^3 , R^4 , R^5 or R^6 is an open chain aliphatic group, the aliphatic group contains 1-6 carbon atoms, and when R^1 , R^2 , R^3 , R^4 , R^5 or R^6 is a cycloaliphatic or aromatic group, the cycloaliphatic or aromatic group contains 6 to 12 carbon atoms.

27. (Withdrawn-Currently Amended) A copolymer formed by the use of monomer units of the formula (I) or of block polymer units constructed from monomers of the formula (I)



in which the substituents and indices have the following meanings:

X is NH, NR^6 or S,

R^1 and R^2 are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl or optionally substituted alkoxy, aryloxy, alkylaryloxy, arylalkyloxy, or hydroxy,

R^3 , R^4 , R^5 and R^6 are, independently of one another, hydrogen or optionally substituted alkyl, alkenyl, aryl, alkylaryl or arylalkyl,

{B} is a straight-chain or branched substituent with (i) more than at least one organically polymerizable group that contains a C=C moiety, and (ii) at least 4[[2]] carbon atoms, wherein at least one C=C moiety is bonded to the remaining part of {B} via an amine or thio functional group,

m is an integer from 0 to 20,

n is an integer from 1 to 20;

apart from compounds in which {B} exhibits one or more isolated or oligomerized isoprene groups.

28. (Withdrawn) The copolymer as claimed in claim 27, wherein, when R¹, R², R³, R⁴, R⁵ or R⁶ is an open chain aliphatic group, then the aliphatic group contains 1-6 carbon atoms, and when R¹, R², R³, R⁴, R⁵ or R⁶ is a cycloaliphatic or aromatic group, the cycloaliphatic or aromatic group contains 6 to 12 carbon atoms.

29. (Currently Amended) The compound of the formula (I) as claimed in claim 10, wherein {B} comprises at least two, ~~norbornene, glycidyl, acrylate, methacrylate, thioacrylate or thiomethacrylate~~ or groups, or groups derived from (meth)acrylamide[[s]] groups.